

AMENDMENTS TO THE SPECIFICATION

~~A~~ Please amend the sentence starting on page 2, line 10 as follows:

~~A1~~ Figure 2 shows an example ~~histograms~~; histogram;

~~A~~ Please amend the paragraph starting on page 3, line 18 as follows:

~~A2~~ Figure 2 shows the situation where most of the pixels ~~falling~~ fall within two areas. This can be applied to an image by selecting the two largest peaks, or by using multiple peaks.

~~A~~ Please amend the paragraph starting on page 4, line 6 as follows:

~~OB~~ At 520, the histogram is mapped, using the centerline locations loc1, loc2, and the widths of the peaks w1 and w2. A monotonous increasing mapping curve path m(g) is formed. This curve path is monotonic, in the sense that it is continually increasing. However, it is non-linear, in the sense that its slope is changing.

~~94~~ Please amend the equation starting on page 4, line 19 as follows:

$$f(g) = \left[\frac{-1 + \exp \frac{g - loc1}{w1}}{1 + \exp \frac{g - loc1}{w1}} + \frac{-1 + \exp \frac{g - loc2}{w2}}{1 + \exp \frac{g - loc2}{w2}} \dots \right]$$

$$f(g) = \frac{-1 + \exp \frac{g - loc1}{w1}}{1 + \exp \frac{g - loc1}{w1}} + \frac{-1 + \exp \frac{g - loc2}{w2}}{1 + \exp \frac{g - loc2}{w2}}$$

Please amend the sentence starting on page 5, line 3 as follows:

The mapping curve is then scaled at 520 530 to scale the mapping curve
between zero and $2^8 - 1 = 255$ according to:

Please amend the equation starting on page 5, line 6 as follows:

An

$$[[m(g) = 255 \times \frac{f(g) - f(\min(g))}{f(\max(g)) - f(\min(g))}]]$$

$$\underline{m(g) = 255 \times \frac{f(g) - f(\min(g))}{f(\max(g)) - f(\min(g))}}$$

Please amend the equation starting on page 6, line 1 as follows:

$$[[m(g) = (2^n - 1) \times \frac{f(g) - f(\min(g))}{f(\max(g)) - f(\min(g))}]]$$

An

$$\underline{m(g) = (2^n - 1) \times \frac{f(g) - f(\min(g))}{f(\max(g)) - f(\min(g))}}$$